Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application.

- (Previously Presented) A process for the preparation of an, optionally hydrogenated, nitrile rubber comprising the steps of
 - a) reacting a nitrile rubber in the presence at least one compound selected from the group consisting of compounds of the general formula I.

wherein:

M1 is Os or Ru:

R is hydrogen or a hydrocarbon selected from the group consisting of C_2 - C_{20} alkenyl, C_2 - C_{20} alkynyl, C_1 - C_{20} alkyl, aryl, C_1 - C_{20} carboxylate, C_1 - C_{20} alkoxy, C_2 - C_{20} alkonyloxy, C_2 - C_{20} alkynyloxy, aryloxy, C_2 - C_{20} alkynyloxy, aryloxy, C_2 - C_{20} alkynyloxy, aryloxy, C_2 - C_{20} alkylsulfinyl;

X is selected from any anionic ligand; and

- L¹ is a neutral π-bonded ligand, preferably but not limited to arene, substituted arene, heteroarene, independent of whether they are mono- or polycyclic;
- L is a ligand selected from the group consisting of phosphines, sulfonated phosphines, fluorinated phosphines, functionalized phosphines bearing up to three

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aminoalkyl-, ammoniumalkyl-, alkoxyalkyl-, alkoxylcarbonylalkyl-, hydrocycarbonylalkyl-, hydrocycarbonylalkyl-, hydrocycarbonylalkyl-, hydrocycalkyl- or ketoalkyl- groups, phosphites, phosphinites, phosphonites, phosphinamines, arsines, stibenes, ethers, amines, amides, imines, sulfoxides, thioethers and pyridines;

Y is a non-coordinating anion; and optionally further in the presence of at least one co-olefin and

for the hydrogenated nitrile polymer

- b) hydrogenating the product of step a).
- (Original) A process according to claim 1 wherein the nitrile rubber is hydrogenated and the hydrogenation is performed under homogeneous catalytic conditions.
- (Original) A process according to claim 2 wherein the hydrogenation is carried out in situ, that is, without first isolating the product of step a).
- (Original) A process according to any of claims 1-3 wherein L is a trialkylphosphine, L¹ is 1-methyl-4-iso-propylphenyl, X is a chloride ion, R is phenyl and M is ruthenium.
- (Previously Presented) A process according to claim 1 wherein the ratio of compound to nitrile rubber is in the range of from 0.005 to 5.
- (Previously Presented) A process according to claim 1 when conducted in the presence of at least one co-olefin.
- (Previously Presented) A process according to claim 1 wherein the process is carried out in an inert solvent selected from the group consisting of monochlorobenzene, dichloromethane, benzene, toluene, tetrahydrofuran and cyclohexane.

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8. (Previously Presented) A process according to claim 1 wherein the nitrile rubber is hydrogenated and the hydrogenation is carried out using a catalyst of formula:

$$(R^8_m B)_l Rh X^3_n$$

 $\label{eq:wherein} \text{wherein} \qquad \text{each R^8 is independently selected from the group consisting} \\ \text{of a $C_1\text{-}C_8$-alkyl group, a $C_4\text{-}C_8$-cycloalkyl group, a $C_6\text{-}C_{15}$-aryl group and a $C_7\text{-}C_{15}$-aralkyl group;}$

B is selected from the group consisting of phosphorus, arsenic, sulfur, and a sulphoxide group (S=0);

 $\mathbf{X}^{\mathbf{3}}$ is selected from the group consisting of hydrogen and an anion; and

I is 2, 3 or 4, m is 2 or 3 and n is 1, 2 or 3.

 (Original) A process according to claim 8 wherein the hydrogenation catalyst is (PPh₃)₂RhCl.